In re Patent Application of:
LEAMING
Serial No. **10/829,008**
Filing Date: **April 21, 2004**

<u>**In the Claims**</u>:

      This listing of claims replaces all prior versions and listing of claims in the application.

      1.   (Currently amended) An integrated circuit for a smart card comprising:

      at least one data terminal for providing communications with a host device <u>over a system bus;</u> and

      a processor for

      providing an attachment signal on the at least one data terminal for recognition by the host device,

      cooperating with the host device to perform an enumeration based upon at least one default descriptor, and

      ~~based upon a system utilization metric exceeding a threshold,~~ selectively removing the attachment signal from the at least one data terminal and thereafter again providing the attachment signal on said at least one data terminal and cooperating with the host device to perform a new enumeration based upon at least one alternate descriptor~~, the system utilization metric based upon a number of other devices communicating with the host device~~ <u>based upon allocations of system bus bandwidth to other devices</u> communicating with the host device <u>over the system bus</u>.

2

In re Patent Application of:
LEAMING
Serial No. **10/829,008**
Filing Date: **April 21, 2004**
_____/

        2.   (Original) The integrated circuit of Claim 1 further comprising at least one power terminal connected to said processor, and wherein said processor receives power via said at least one power terminal during removal of the attachment signal.

        Claims 3 and 4 (cancelled).

        5.   (Original) The integrated circuit of Claim 1 wherein said processor monitors communications with the host device during removal of the attachment signal.

        6.   (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one device descriptor.

        7.   (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

        8.   (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one interface descriptor.

        9.   (Original) The integrated circuit of Claim 1 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

3

In re Patent Application of:
LEAMING
Serial No. **10/829,008**
Filing Date: **April 21, 2004**
_____/

10.   (Original) The integrated circuit of Claim 1
wherein said at least one data terminal comprises first and
second data terminals for differential data signals.

11.   (Original) The integrated circuit of Claim 1
further comprising a USB transceiver connected between said
processor and said at least one data terminal.

12.   (Currently amended) A smart card comprising:
a smart card body; and
an integrated circuit carried by said smart card body
and comprising
        at least one data terminal for providing
communications with a host device over a system bus,
and
        a processor for
            providing an attachment signal on the at
least one data terminal for recognition by the
host device,
            cooperating with the host device to perform
an enumeration based upon at least one default
descriptor, and
            based upon a system utilization metric
exceeding a threshold, selectively removing the
attachment signal from the at least one data

4

In re Patent Application of:
LEAMING
Serial No. **10/829,008**
Filing Date: **April 21, 2004**

terminal and thereafter again providing the attachment signal on said at least one data terminal and cooperating with the host device to perform a new enumeration based upon at least one alternate descriptor, ~~the system utilization metric based upon a number of other devices communicating with the host device~~ based upon allocations of system bus bandwidth to other devices communicating with the host device over the system bus.

13.   (Original) The smart card of Claim 12 wherein said integrated circuit further comprises at least one power terminal connected to said processor, and wherein said processor receives power via said at least one power terminal during removal of the attachment signal.

Claims 14 and 15 (cancelled).

16.   (Original) The smart card of Claim 12 wherein said processor monitors communications with the host device during removal of the attachment signal.

17.   (Original) The smart card of Claim 12 wherein the at least one alternate descriptor comprises at least one device descriptor.

5

In re Patent Application of:
LEAMING
Serial No. **10/829,008**
Filing Date: **April 21, 2004**
_____/

18.   (Original) The smart card of Claim 12 wherein the
at least one alternate descriptor comprises at least one
configuration descriptor.

19.   (Original) The smart card of Claim 12 wherein the
at least one alternate descriptor comprises at least one
interface descriptor.

20.   (Original) The smart card of Claim 12 wherein the
at least one alternate descriptor comprises at least one endpoint
descriptor.

21.   (Original) The smart card of Claim 12 wherein
said at least one data terminal comprises first and second data
terminals for differential data signals.

22.   (Original) The smart card of Claim 12 further
comprising a USB transceiver connected between said processor and
said at least one data terminal.

23.   (Currently amended) A smart card system
comprising:
        a host device and associated system bus;
        a smart card adapter connected to said host device via
said system bus; and

6

In re Patent Application of:
LEAMING
Serial No. 10/829,008
Filing Date: April 21, 2004
_____/

a smart card to be read by said smart card adapter and comprising a smart card body and an integrated circuit carried by said smart card body, said integrated circuit comprising

at least one data terminal for providing communications with a host device over said system bus, and

a processor for

providing an attachment signal on the at least one data terminal for recognition by said host device,

cooperating with said host device to perform an enumeration based upon at least one default descriptor, and

based upon a system utilization metric exceeding a threshold, selectively removing the attachment signal from the at least one data terminal and thereafter again providing the attachment signal on said at least one data terminal and cooperating with said host device to perform a new enumeration based upon at least one alternate descriptor, the system utilization metric based upon a number of other devices communicating with the host device based upon allocations of system bus bandwidth to other devices communicating with said host device over said system bus.

7

In re Patent Application of:
LEAMING
Serial No. **10/829,008**
Filing Date: **April 21, 2004**
_____/

24.   (Original) The smart card system of Claim 23 wherein said integrated circuit further comprises at least one power terminal connected to said processor, and wherein said processor receives power via said at least one power terminal during removal of the attachment signal.

25.   (Original) The smart card system of Claim 23 wherein the system event comprises a system utilization metric exceeding a threshold.

26.   (Original) The smart card system of Claim 23 wherein the system event comprises the occurrence of attempted unauthorized communications.

27.   (Original) The smart card system of Claim 23 wherein said processor monitors communications with said host device during removal of the attachment signal.

28.   (Original) The smart card system of Claim 23 wherein the at least one alternate descriptor comprises at least one device descriptor.

29.   (Original) The smart card system of Claim 23 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

8

In re Patent Application of:
LEAMING
Serial No. **10/829,008**
Filing Date: **April 21, 2004**
_____/

30.   (Original) The smart card system of Claim 23 wherein the at least one alternate descriptor comprises at least one interface descriptor.

31.   (Original) The smart card system of Claim 23 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

32.   (Original) The smart card system of Claim 23 wherein said at least one data terminal comprises first and second data terminals for differential data signals.

33.   (Original) The smart card system of Claim 23 further comprising a USB transceiver connected between said processor and said at least one data terminal.

34.   (Currently amended) A method for operating a smart card comprising at least one data terminal, the method comprising:
        providing an attachment signal on the at least one data terminal for recognition by a host device <u>over a system bus</u>;
        cooperating with the host device <u>over the system bus</u> to perform an enumeration based upon at least one default descriptor; and
        ~~based upon a system utilization metric exceeding a threshold,~~ selectively removing the attachment signal from the at

9

In re Patent Application of:
LEAMING
Serial No. 10/829,008
Filing Date: April 21, 2004

_____/

least one data terminal and thereafter again providing the
attachment signal on the at least one data terminal and
cooperating with the host device to perform a new enumeration
based upon at least one alternate descriptor, ~~the system~~
~~utilization metric based upon a number of other devices~~
~~communicating with the host device~~ based upon allocations of
system bus bandwidth to other devices communicating with the host
device over the system bus.

     35.   The method of Claim 34 wherein the smart card
further comprises at least one power terminal connected to the
processor, and wherein the smart card receives power via the at
least one power terminal during removal of the attachment signal.

     Claims 36 and 37 (cancelled).

     38.   (Original) The method of Claim 34 further
comprising monitoring communications with the host device during
removal of the attachment signal.

     39.   (Original) The method of Claim 34 wherein the at
least one alternate descriptor comprises at least one device
descriptor.

                              10

In re Patent Application of:
LEAMING
Serial No. **10/829,008**
Filing Date: **April 21, 2004**
_____/

    40.   (Original) The method of Claim 34 wherein the at least one alternate descriptor comprises at least one configuration descriptor.

    41.   (Original) The method of Claim 34 wherein the at least one alternate descriptor comprises at least one interface descriptor.

    42.   (Original) The method of Claim 34 wherein the at least one alternate descriptor comprises at least one endpoint descriptor.

    43.   (Original) The method of Claim 34 wherein the at least one data terminal comprises first and second data terminals for differential data signals.

    44.   (Original) The method of Claim 34 wherein the smart card operates in a universal serial bus (USB) mode.

    Claims 45-50 (cancelled)

11